

Rpt. 5.

# REPORT ON BOILERS.

No. 23569

Port of

Glasgow

Received at London Office

No. in Survey held at

Glasgow

Date, first Survey

4<sup>th</sup> Oct 06

Last Survey

Feb 27<sup>th</sup> 1906

Reg. Book.

(Number of Visits 14)

Gross  
Tons  
Net

Master

Built at

Port Glasgow

By whom built

W Hamilton & Co

When built 1906

Engines made at

Glasgow

By whom made

David Brown & Co

when made 1906

Boilers made at

do

By whom made

do

when made 1906

Registered Horse Power

Owners

Glen & Co

Port belonging to

Glasgow

## MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel

(Letter for record (6)) Total Heating Surface of Boilers 550 <sup>sq</sup> Is forced draft fitted No. and Description of

Boilers One single ended Working Pressure 100 <sup>lb</sup> Tested by hydraulic pressure to 200 <sup>lb</sup> Date of test 29/12/05

No. of Certificate 7909 Can each boiler be worked separately Area of fire grate in each boiler 23 <sup>sq</sup> No. and Description of

safety valves to each boiler 2 Cockburn Area of each valve 3.97 <sup>sq</sup> Pressure to which they are adjusted 104 <sup>lb</sup>

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork on deck Mean dia. of boilers 9'-0" Length 8'-0"

Material of shell plates slit Thickness 19/32" Range of tensile strength 28 <sup>tons</sup> Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D R L long. seams T R L Diameter of rivet holes in long. seams 15/16" Pitch of rivets 3.525"

Lap of plates or width of butt straps 6 1/2" Per centages of strength of longitudinal joint rivets 79.3 plate 73.5 Working pressure of shell by

rules 103 <sup>lb</sup> Size of manhole in shell 16 x 12 Size of compensating ring 2-7 x 2-3 No. and Description of Furnaces in each

boiler 2 plain Material slit Outside diameter 2-7 7/8" Length of plain part top 59" bottom 81" Thickness of plates crown 7/16" bottom 3/4"

Description of longitudinal joint mild No. of strengthening rings 2 in one Working pressure of furnace by the rules 100 <sup>lb</sup> Combustion chamber

plates: Material slit Thickness: Sides 7/16" Back 1/2" Top 7/16" Bottom 3/4" Pitch of stays to ditto: Sides 7 x 7" Back 9 x 8"

Top 7 x 7" If stays are fitted with nuts or riveted heads mild Working pressure by rules 106 <sup>lb</sup> Material of stays slit Diameter at

smallest part 99" Area supported by each stay 72" Working pressure by rules 110" End plates in steam space: Material slit Thickness 3/4"

Pitch of stays 14" How are stays secured D. nut Working pressure by rules 128" Material of stays slit Diameter at smallest part 2-7 1/2"

Area supported by each stay 196 <sup>sq</sup> Working pressure by rules 140" Material of Front plates at bottom slit Thickness 3/4" Material of

Lower back plate slit Thickness 3/4" Greatest pitch of stays 13 1/4" Working pressure of plate by rules 150" Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2 x 4 3/8" Material of tube plates slit Thickness: Front 3/4" Back 7/8" Mean pitch of stays 11" Pitch across wide

water spaces 13 1/4" Working pressures by rules 115 <sup>lb</sup> Girders to Chamber tops: Material slit Depth and thickness of

girder at centre 5 x 7 1/2 x 2 Length as per rule 22" Distance apart 7" Number and pitch of Stays in each 2-7"

Working pressure by rules 130 <sup>lb</sup> Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

## VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

plates Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,

David Brown & Co

Manufacturer.

Dates of Survey  
During progress of work in shops - -  
During erection on board vessel - -  
while building  
Total No. of visits

See accompanying report

Is the approved plan of main boiler forwarded herewith

donkey

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Foundation

W725-0048



**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)

This boiler has been constructed under Special Survey & of good materials & workmanship. It has been fitted on board as stated on Rpt. 4 accompanying.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	When applied for.
Special ... ..	£	:	19
Donkey Boiler Fee ...	£	:	When received,
Travelling Expenses (if any) £	:	:	19

Committee's Minute

Glasgow 12 MAR 1903

Assigned

See accompanying report. *Amund*

*H. G. Anderson - Smith*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



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